

STATINTL

19 JUNE 1961@

CGM *[Signature]*TP & DS file

SUBJECT: BI-DIRECTIONAL COUNTER (PIGMI II)  
MONTHLY PROGRESS REPORT No. 5

REFERENCE: CONTRACT [REDACTED] STATINTL

GENTLEMEN:

STATINTL

## 1.0 INTRODUCTION

1.1 IN COMPLIANCE WITH THE REQUIREMENTS OF THE SCHEDULE, TASK ORDER No. 1, PARAGRAPH 2 ENTITLED REPORTS OF THE SUBJECT CONTRACT, WE HEREBY SUBMIT OUR MONTHLY PROGRESS REPORT No. 5. THIS REPORT COVERS THE REPORTING PERIOD FROM 18 MAY 1961 TO 17 JUNE 1961 ON THE DESIGN AND FABRICATION OF PIGMI II DESCRIBED IN [REDACTED] DESIGN SPECIFICATIONS DS-1157A.

1.2 THE COUNTER SYSTEM CONVERTS A SHAFT ROTATION INTO DIGITAL FORM. THIS DIGITAL INFORMATION CAN BE STORED ON EITHER OR BOTH, TYPER (MODEL C IBM) OR KEYPUNCH (024, 026, 526 IBM).

## 2.0 OBJECTIVES OF THE COUNTER SYSTEM.

2.1 THE COUNTER SYSTEM IS INTENDED FOR USE AS THE OUTPUT FOR THE [REDACTED] STATINTL  
STATINTL [REDACTED] IT CAN ALSO BE USED AS AN ORDINARY COUNTER BY APPLYING EXTERNAL PULSES AS AN INPUT.

2.2 READOUT CAN BE ACCOMPLISHED REMOTELY BY MEANS OF A PUSH BUTTON.

## 3.0 CONFORMITY OR NONCONFORMITY TO WORK SCHEDULE.

3.1 DUE TO DELAYS OF COMPONENT DELIVERIES, DELIVERY OF THE LARR-PIGMI SYSTEM HAS BEEN SCHEDULED FOR 17 JULY 1961.

## 4.0 SUMMARY OF WORK COMPLETED DURING THE PERIOD FROM 18 MAY 1961 TO 17 JUNE 1961.

4.1 ALL THE COMPONENTS NECESSARY TO COMPLETE THE PIGMI HAVE BEEN ORDERED.

4.2 ALL THE PRINTED CIRCUIT BOARDS HAVE BEEN ASSEMBLED AND TESTED.

4.3 THE PACKAGING OF A COUNTER AXIS INTO A 5 1/4" PANEL SPACE IS COMPLETED.

4.4 THE CHASSIS FOR EACH OF THE TWO (2) COUNTERS WAS FABRICATED. THE FRONT PANEL WAS FABRICATED, PAINTED AND SILK SCREENED.

4.5 WITH MINOR EXCEPTIONS, THE WIRE LIST WAS COMPLETED.

DECLASS REVIEW by NIMA/DOD

- 4.6 WITH EXCEPTION OF POWER SUPPLY COMPONENTS, ALL THE COMPONENTS ON THE FRONT PANEL AND CHASSIS OF ONE AXIS HAVE BEEN ASSEMBLED AND WIRED.
- 4.7 ONE OF THE COUNTER AXES IS GOING THROUGH CHECKOUT AT PRESENT. ALL FIVE (5) OF THE DECADES ARE FUNCTIONING PROPERLY IN BOTH THE COUNT UP AND COUNT DOWN MODE OF OPERATION, USING AN EXTERNAL INPUT PULSE TRAIN. THE MAXIMUM INPUT FREQUENCY IT WILL COUNT IS NEAR 300 Kc, WHICH IS ABOUT TWICE THE REQUIRED 150 Kc.
- 5.0 SUMMARY OF WORK PROGRESS DURING THE REPORTING PERIOD FROM 18 MAY 1961 TO 17 JUNE 1961.
- 5.1 THE PRESET SWITCHES AND OTHER SWITCHES AND CONNECTORS FOR THE PRINTED CIRCUIT CARDS WERE WIRED FOR ONE COUNTER AXIS. THE POWER SUPPLY COMPONENTS WERE OMITTED FOR CONVENIENCE DURING CHECKOUT. THE FIVE-DECADE-COUNTER PORTION FUNCTIONS SURPRISINGLY WELL, EXCEPT FOR THREE WIRING ERRORS ON THE CONNECTORS. THE COPY FROM COUNTERS TO REGISTER AND PRE-SET OF INITIAL NUMBERS IS BEING CHECKED OUT AT PRESENT.
- 5.2 THE WIRING AND MOUNTING OF COMPONENTS IN THE OTHER COUNTER AXIS SHOULD BE COMPLETED WITHIN A DAY.
- 5.3 THE PIN NUMBERS FOR VARIOUS CABLES AND LENGTHS OF CABLES FOR ENTIRE SYSTEM ARE UNDER INVESTIGATION AT PRESENT.
- 5.4 A ROUGH DRAFT OF THE MANUAL IS BEING PREPARED.
- 6.0 WORK TO BE ACCOMPLISHED DURING THE NEXT REPORTING PERIOD.
- 6.1 COMPLETE THE CHECKOUT OF BOTH COUNTER AXES.
- 6.2 ASSEMBLE AND WIRE POWER SUPPLIES.
- 6.3 INSTALL ALL SUB-ASSEMBLIES IN THE PIGMI II CABINET.
- 6.4 COMPLETE THE MANUAL.
- 6.5 SYSTEM TEST PIGMI II WITH LARR AND PAPER TAPE OUTPUT.